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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

	<b>.</b>			
Applicant's or agent's file reference PIA30413/PSC	FOR FURTHER ACTION  SeeNotificationofTransmittalofInternationalPreliminary Examination Report (Form PCT/IPEA/416)			
International application No.	International filing date(day/m	onth/year)	Priority date (day/month/year,	1
PCT/KR2003/000840 25 APRIL 2003 (25.			25 APRIL 2002 (25.04.2002)	)
International Patent Classification (IPC IPC7 H04R 1/00, H04R 1/02, H0		PC		
Applicant POSTECH FOUNDATION	et al			
This international preliminary and is transmitted to the application.	examination report has been pre ant according to Article 36.	pared by this Inte	mational Preliminary Examinii	ng Authority
2. This REPORT consists of a total of sheets, including this cover sheet.  This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a tot	al ofsheets.			
3. This report contains indication	s relating to the following items:	:		
I X Basis of the repo				
I Priority				
	nt of opinion with regard to nove	elty, inventive step	and industrial applicability	
IV Lack of unity of				
Reasoned states	Personed statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;			
VI Certain documen	nts cited			
VII Certain defects i	n the international application			
VIII Certain observat				
Date of submission of the demand	1	Date of completion	of this report	
18 NOVEMBER 2003 (18.	11.2003)	22 JULY 2	2004 (22.07.2004)	
Name and mailing address of the II	PEA/KR	Authorized officer		
Korean Intellectual Pro		NA, Yong S	00	
Facsimile No. 82-42-472-7140		Telephone No. 8	2-42-481-5680	

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International aplication No.
PCT/KR2003/000840

I.	Basis	s of the report	
-	With	regard to the elements of the international application:*	
		the international application as originally filed	
	Ħ	the description:	, as originally filed
		pages	filed with the demand
		pages, filed with the letter of	
		the claims:	, as originally filed
	لــا	pages, as amended (together with an	y statment) under Article 19
		pages	, filed with the demand
		pages, filed with the letter of	
		the drawings:	_ , as originally filed
	-	pages	, filed with the demand
		pages, filed with the letter of	
ı		The same of the sa	as originally filed
		pagespages	
		pages, filed with the letter of	
	the TI	Tith regard to the language, all the elements marked above were available or furnished to this Aut e international application was filed, unless otherwise indicated under this item.  hese elements were available or furnished to this Authority in the following language	hority in the language in which lish which is 3.1(b)).  mination(under Rules 55.2 and/ plication, the international
	4. [	The amendments have resulted in the cancellation of:  the description, pages the claims, Nos. the drawings, sheet	
	5.	This report has been established as if (some of) the amendments had not been made, si go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	ince they have been considered to
		Replacement sheets which have been furnished to the receiving Office in response to an invitatio in this opinion as "originally filed." and are not annexed to this report since they do not con and 70.17).	n under Article 14 are referred to tain amendments (Rules 70.16
	**	Any replacement sheet containing such amendments must be referred to under item I and annex	sed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION

International apl	ication No.
PCT/KR2003/0	00840

1.	Statement Novelty (N)	Claims Claims	1-7 None	YES NO
	Inventive step (IS)	Claims Claims	1-7 None	YES NO
	Industrial applicability (IA)	Claims Claims	1-7 None	YES
1				

2. Citations and explanations (Rule 70.7)

Reference is made to the following document:

D1: JP 4-324797 A (MATSUSHITA ELECTRIC IND CO. LTD.) 13 November 1992

D2: JP 8-223695 A (HITACHI CONSTR MACH CO. LTD.) 30 August 1996

D3: US 5305731 A (SIEMENS AKTIENGESELLSHAFT) 26 April 1994

D4: US 5365024 A (OLYMPUS OPTICAL CO. LTD.) 15 November 1994

The subject matter of claims 1-7 relates to a speaker for focusing sound in audible frequency to a focal point, comprising a sound lens filled with a gas heavier than air; sound source generators coupled with the sound lens in concentric axis; and a sound proof chamber for surrounding the sound lens and the sound source generators.

D1 discloses a speaker equipment which has an acoustic guide lens and a sound absorbing member. D2 discloses an ultrasonic probe which has an acoustic lens and an ultrasonic absorbing material. D3 discloses a liquid lens having the two lens walls and a lens liquid situated therebetween. D4 discloses an acoustic lens system used for ultrasonic imaging in an ultrasonic system. None of these does not teach or suggest a sound lens filled with a gas heavier than air.

Therefore, the subject matter of claims 1-7 is new and is considered to involve an inventive step.